

## SECURE DATA STORAGE AND RETRIEVAL WITH KEY MANAGEMENT AND USER AUTHENTICATION

### Abstract of the Disclosure

Methods, systems and computer program products are provided which provide for controlling access to digital data in a file by encrypting the data with a first key, encrypting the first key with a second personal key generated from a password/passphrase associated with the file and further encrypting the encrypted first key with a control key which is managed by the system. In certain embodiments, user authentication may also be provided by issuing a ticket which is utilized to create, access and administer the files in the system.

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